



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 272394 Report

This analysis was run 02/07/26 on database version 634.

Pham number 272394 has 9 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Shukran\_93
- Track 2 : BasketStar\_40
- Track 3 : Lunareta\_220, Montpel\_220, Moiqah\_217, DeejaClivia\_210
- Track 4 : Yago84\_10
- Track 5 : AnClar\_10
- Track 6 : Bauer\_40

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 17, it was called in 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnClar\_10,

Genes that have the "Most Annotated" start but do not call it:

- Bauer\_40, Yago84\_10,

Genes that do not have the "Most Annotated" start:

- BasketStar\_40, DeejaClivia\_210, Lunareta\_220, Moiqah\_217, Montpel\_220, Shukran\_93,

### **Summary by start number:**

Start 13:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer\_40 (FN),

Start 15:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Yago84\_10 (DR),

Start 17:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 33.3% of time when present
- Phage (with cluster) where this start called: AnClar\_10 (DR),

Start 19:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DeejaClivia\_210 (C1), Lunareta\_220 (C1), Moiqah\_217 (C1), Montpel\_220 (C1),

Start 20:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: BasketStar\_40 (AY),

Start 21:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran\_93 (AY),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AY, C1, DR, FN,

Info for manual annotations of cluster DR:

- Start number 15 was manually annotated 1 time for cluster DR.
- Start number 17 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster FN:

- Start number 13 was manually annotated 1 time for cluster FN.

### **Gene Information:**

Gene: AnClar\_10 Start: 10299, Stop: 10048, Start Num: 17

Candidate Starts for AnClar\_10:

(10, 10512), (11, 10482), (14, 10338), (Start: 15 @10332 has 1 MA's), (Start: 17 @10299 has 1 MA's), (20, 10275), (24, 10167), (25, 10140),

Gene: BasketStar\_40 Start: 26885, Stop: 27112, Start Num: 20

Candidate Starts for BasketStar\_40:

(3, 26543), (7, 26609), (8, 26633), (14, 26825), (18, 26876), (20, 26885),

Gene: Bauer\_40 Start: 28441, Stop: 28097, Start Num: 13

Candidate Starts for Bauer\_40:

(8, 28576), (Start: 13 @28441 has 1 MA's), (16, 28369), (Start: 17 @28348 has 1 MA's), (20, 28324),

Gene: DeejaClivia\_210 Start: 123669, Stop: 123905, Start Num: 19

Candidate Starts for DeejaClivia\_210:

(1, 123210), (2, 123231), (6, 123411), (19, 123669), (20, 123672), (23, 123765), (24, 123780), (26, 123846), (27, 123849),

Gene: Lunareta\_220 Start: 126395, Stop: 126631, Start Num: 19

Candidate Starts for Lunareta\_220:

(1, 125936), (2, 125957), (6, 126137), (19, 126395), (20, 126398), (23, 126491), (24, 126506), (26, 126572), (27, 126575),

Gene: Moiqah\_217 Start: 124173, Stop: 124409, Start Num: 19

Candidate Starts for Moiqah\_217:

(1, 123714), (2, 123735), (6, 123915), (19, 124173), (20, 124176), (23, 124269), (24, 124284), (26, 124350), (27, 124353),

Gene: Montpel\_220 Start: 126393, Stop: 126629, Start Num: 19

Candidate Starts for Montpel\_220:

(1, 125934), (2, 125955), (6, 126135), (19, 126393), (20, 126396), (23, 126489), (24, 126504), (26, 126570), (27, 126573),

Gene: Shukran\_93 Start: 50664, Stop: 50843, Start Num: 21

Candidate Starts for Shukran\_93:

(5, 50334), (9, 50394), (14, 50568), (21, 50664),

Gene: Yago84\_10 Start: 9848, Stop: 9564, Start Num: 15

Candidate Starts for Yago84\_10:

(4, 10115), (10, 10031), (11, 10001), (12, 9935), (Start: 15 @9848 has 1 MA's), (Start: 17 @9815 has 1 MA's), (20, 9791), (22, 9731), (26, 9617),